

Certificate of Analysis
Dated: 01/11/2011

CLIENT: Basil Athanassiadis 268 Ipswich Road Annerley Queensland 4103	REF NO: 1115388
ATTN: Basil Athanassiadis	ORDER NO: NA
SAMPLE DESCRIPTION: 1. Ag Water 2. 1012 Paste	DATE RECEIVED : 16/09/11 DATE COMMENCED : 11/10/11

EXAMINATION: Anti-microbial Activity against *Enterococcus faecalis* Biofilms
METHOD: Client Method

CONDITIONS:

Test organisms: *Enterococcus faecalis* ATCC 19433
Test Sample: 0.03g for 1012 paste and 0.03mL for Ag Water
Contact Time: 10 minute, 1, 3 and 6 days

RESULTS:

Table 1: Results for Biofilm Test Trial I

Test Point:	Test sample		
	<i>Positive carrier</i>	<i>Ag-Water</i>	<i>1012 paste</i>
CFU @Day 0 after 10 min contact time	1.2 x 10 ⁷	9.0 x 10 ⁶	6.7 x 10 ⁶
Bacterial survival index (BSI)	-	1.88	1.75
CFU @Day 1	3.4 x 10 ⁹	1.9 x 10 ⁹	8.6 x 10 ⁸
Bacterial survival index (BSI)	-	1.75	1.40
CFU @Day 3	8.5 x 10 ⁹	2.8 x 10 ⁹	1.9 x 10 ⁹
Bacterial survival index (BSI)	-	1.52	1.35
CFU @Day 6	1.26 x 10 ¹⁰	1.0 x 10 ¹⁰	8.8 x 10 ⁹
Bacterial survival index (BSI)	-	1.90	1.84

Table 1: Results for Biofilm Test Trial II

Test Point:	Test sample		
	<i>Positive carrier</i>	<i>Ag-Water</i>	<i>1012 paste</i>
CFU @Day 0 after 10 min contact time	5.2 x 10 ⁶	6.7 x 10 ⁶	4.1 x 10 ⁶
Bacterial survival index (BSI)	-	2.11	1.9
CFU @Day 1	3.4 x 10 ⁹	2.5 x 10 ⁹	1.2 x 10 ⁹
Bacterial survival index (BSI)	-	1.87	1.55
CFU @Day 3	5.2 x 10 ⁹	5.2 x 10 ⁹	3.8 x 10 ⁹
Bacterial survival index (BSI)	-	2.00	1.86
CFU @Day 6	4.1 x 10 ⁹	5.1 x 10 ⁹	4.6x 10 ⁹
Bacterial survival index (BSI)	-	2.08	2.05

Bacterial Survival Index was calculated using the formula given under as described in the ADJ 1222 Scientific Article

$$\frac{\text{TestCount(CFU)}}{\text{ControlCount(CFU)}} \times 100 = \text{LOG10}$$

CFU = Colony Forming Unit

Signed:



Imtiaz Ahmed
Sterile Product Testing Manager